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Type: **Parallel Talk**

Anisotropic hydrodynamic modeling of heavy-ion collisions at LHC and RHIC

Wednesday, May 16, 2018 12:30 PM (20 minutes)

In this talk, we will present phenomenological predictions of 3+1d quasiparticle anisotropic hydrodynamics (aHydroQP). First, we will show comparisons with experimental data produced in 2.76 TeV Pb-Pb collisions at the LHC (PRL 119, 042301 and PRC 96, 044910). We will show some observables such as the spectra, multiplicity, elliptic flow, and HBT radii where we find the agreement between our model and experimental results is quite good. Additionally, we will present some comparisons between aHydroQP and experimental results in 200 GeV Au-Au collisions at RHIC. Our preliminary results show a quite good agreement with the experimental data for the spectra and multiplicity. From these two different systems, at two different energies, our results indicate that aHydroQP provides a promising framework for describing the dynamics of the momentum-space anisotropic QGP created in heavy-ion collisions.

Content type

Theory

Collaboration

Centralised submission by Collaboration

Presenter name already specified

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